MOTOROLA

User's Guide

DIGITAL WIRELESS TELEPHONE

Welcome

Welcome to the world of Motorola digital wireless communications! We are pleased that you have chosen the Motorola Series 120c wireless phone to keep you connected with ease.

Power Key
Turn the phone on and off.

Earpiece

Display

Voice Key
Record and activate voice notes, phonebook and shortcut names.

Headset Jack
Insert headset accessory for hands-free use.

Menu Key

Volume Keys
Adjust earpiece and ringer volume.

Right Soft Key
Perform functions identified by right display prompt.

Left Soft Key
Perform functions identified by left display prompt.

Send Key
Send and answer calls, view recent dialed calls list.

End Key
End phone calls, exit menu system.

Scroll Keys
Move through menus and lists.

Microphone

Accessory Connector Port
Insert charger, FM Stereo Radio Headset, and phone accessories.

Personal Communications Sector
600 North U.S. Highway 45
Libertyville, Illinois 60048
1-800-331-6456 (United States)
1-888-390-6456 (TTY/TDD United States)
1-800-461-4575 (Canada)
www.motorola.com (United States)
www.motorola.ca (Canada)

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Menu Map

Main Menu

- **Recent Calls**
  - Received Calls
  - Dialed Calls
  - Notepad
  - Call Times
- **Phonebook**
- **Quick Dial**
- **Radio**
- **Messages**
  - Voicemail
  - Text Msgs
  - Browser Alerts
  - Quick Notes
  - Outbox
  - Drafts
- **Shortcuts**
- **Voice Notes**
- **Browser**
- **Settings**
  (see next page)

Note: This is the standard phone menu layout. You or your service provider may have changed the menu layout or changed some feature names. Not all features may be available for all users.

For example, the **Radio** feature on the main menu (left) is displayed only when the optional FM Stereo Radio Headset accessory is plugged into the accessory connector port on your phone (see phone illustration, page 1).

For a description of the standard menu features, see pages 47 to 58.

Shortcuts
Change display zoom: Press MENU, then press and hold MENU
Lock/unlock keypad: Press MENU *
Display my phone number: Press MENU #
Dial voicemail number: Press and hold 1
Go to dialed calls list: Press SND
Exit menu system: Press END

Settings Menu

- **Ring Styles**
  - Style
  - *Style* Detail
  - My Tones
- **Phone Status**
  - My Tel. Number
  - Battery Meter
  - Other Information
- **Connection**
  - Incoming Call
- **In-Call Setup**
  - In-Call Timer
  - Answer Options
- **Security**
  - Phone Lock
  - Lock Keypad
  - Lock Application
  - Restrict Calls
  - New Passwords
- **Other Settings**
  - Personalize
    - Main Menu
    - Keys
    - Greeting
    - Banner
    - Quick Dial
  - Initial Setup
    - Time and Date
    - Auto PIN Dial
    - Auto Redial
    - Backlight
    - Zoom
    - Scroll
    - Animation
    - Language
    - Contrast
    - DTMF
    - Master Reset
    - Master Clear
  - Network
  - Car Settings
  - Headset

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About This Guide

Using Your Phone's Features

This user guide introduces you to the many features in your Motorola phone. A reference guide for your phone is also available that explains the phone's features in more detail. To obtain a copy of the reference guide or another copy of this user guide, see the Motorola Web site at:

`http://motorola.com/consumer/manuals` (United States)
`http://www.motorola.ca/manuals` (Canada)

or contact the Motorola Customer Call Center at 1-800-331-6456 in the United States or 1-800-461-4575 in Canada.

Navigating To a Menu Feature

You can access many of your phone's features through the menu system. This guide shows you how to navigate to a specific menu feature as follows:

Find the Feature MENU > Recent Calls > Dialed Calls

The > symbol means that you should scroll to and select the feature. This example shows that you must press MENU, scroll to and select Recent Calls, then scroll to and select Dialed Calls to view the dialed calls list.

Optional Features

Features marked with this label are optional network and/or subscription-dependent features. These features may not be offered by all service providers in all geographical areas. Contact your service provider for information about availability.

Optional Accessories

Features marked with this label require the use of an optional Motorola Original™ accessory.

Safety and General Information

IMPORTANT INFORMATION ON SAFE AND EFFICIENT OPERATION. READ THIS INFORMATION BEFORE USING YOUR PHONE.

RF Operational Characteristics

Your phone contains a transmitter and a receiver. When it is ON, it receives and transmits radio frequency (RF) energy. The phone operates in the frequency range of 824 MHz to 849 MHz in analog and digital mode and 1851.25 MHz to 1908.75 MHz in digital mode.

When you communicate with your phone, the system handling your call controls the power levels at which your phone transmits. The output power level typically may vary over a range from 0.05 watts to 0.44 watts in analog mode and 0.0 watts to 0.24 watts in digital mode.

Exposure To Radio Frequency Energy

Your Motorola phone is designed to comply with the following national and international standards and guidelines regarding exposure of human beings to radio frequency electromagnetic energy (EME):

- United States Federal Communications Commission, Code of Regulations; 47 CFR part 2 sub-part J
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992

- Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition
- National Council on Radiation Protection and Measurements (NCRP) of the United States, Report 86, 1986
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998
- Ministry of Health (Canada) Safety Code 6. Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz, 1999
- Australian Communications Authority Radiocommunications (Electromagnetic Radiation-Human Exposure) Standard 1999

To assure optimal phone performance and make sure human exposure to radio frequency electromagnetic energy is within the guidelines set forth in the above standards, always adhere to the following procedures:

Portable Phone Operation and EME Exposure

Antenna Care

Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the phone and may violate FCC regulations.

Do NOT hold the antenna when the phone is in use. Holding the antenna affects call quality and may cause the phone to operate at a higher power level than needed.

Phone Operation

When placing or receiving a phone call, hold your phone as you would a wireline telephone. **Speak directly into the microphone.**

Body-Worn Operation

To maintain compliance with FCC/Health Canada RF exposure guidelines, if you wear a phone on your body when transmitting, always place the phone in a **Motorola-supplied or approved clip, holder, holster, case, or body harness for this product.** Use of non-Motorola-approved accessories may exceed FCC/Health Canada RF exposure guidelines. **If you do not use a body-worn accessory, and are not holding the phone in the normal use position at the ear, ensure the phone and its antenna are at least one inch (2.5 centimeters) from your body when transmitting.**

Data Operation

When using any data feature of the phone, with or without an accessory cable, **position the phone and its antenna at least one inch (2.5 centimeters) from your body.**

Approved Accessories

For a list of approved Motorola accessories, visit our website at www.motorola.com.

Electromagnetic Interference/ Compatibility

Note: Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility.

Facilities

To avoid electromagnetic interference and/or compatibility conflicts, turn off your phone in any facility where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy.

Aircraft

When instructed to do so, turn off your phone when on board an aircraft. Any use of a phone must be in accordance with applicable regulations per airline crew instructions.

Medical Devices

Pacemakers

The Advanced Medical Technology Association recommends that a minimum separation of 6 inches (15 centimeters) be maintained between a handheld wireless phone and a pacemaker. These recommendations are consistent with the independent research by, and recommendations of, the United States Food and Drug Administration.

Persons with pacemakers should:

- ALWAYS keep the phone more than six inches (15 centimeters) from your pacemaker when the phone is turned ON.
- NOT carry the phone in the breast pocket.
- use the ear opposite the pacemaker to minimize the potential for interference.
- turn OFF the phone immediately if you have any reason to suspect that interference is taking place.

Hearing Aids

Some digital wireless phones may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

Safety and General

Use While Driving

Check the laws and regulations on the use of phones in the area where you drive. Always obey them.

When using your phone while driving, please:

- give full attention to driving and to the road.
- use hands-free operation, if available.
- pull off the road and park before making or answering a call if driving conditions so require.

Operational Warnings

For Vehicles With an Air Bag

Do not place a portable phone in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a portable phone is placed in the air bag deployment area and the air bag inflates, the phone may be propelled with great force and cause serious injury to occupants of the vehicle.

Potentially Explosive Atmospheres

Turn off your phone prior to entering any area with a potentially explosive atmosphere, unless the phone is a model specifically identified as being "Intrinsically Safe." Do not remove, install, or charge batteries in such areas. Sparks in a potentially explosive atmosphere can cause an explosion or fire resulting in bodily injury or even death.

Note: The areas with potentially explosive atmospheres referred to above include fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities, areas where the air contains chemicals or particles, such as grain, dust, or metal powders, and any other area where you would normally be advised to turn off your vehicle engine. Areas with potentially explosive atmospheres are often but not always posted.

Blasting Caps and Areas

To avoid possible interference with blasting operations, turn OFF your phone when you are near electrical blasting caps, in a blasting area, or in areas posted: "Turn off two-way radio." Obey all signs and instructions.

Operational Cautions

Antennas

Do not use any portable phone that has a damaged antenna. If a damaged antenna comes into contact with your skin, a minor burn can result.

Batteries

All batteries can cause property damage and/or bodily injury such as burns if a conductive material such as jewelry, keys, or beaded chains touches exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse, or other container with metal objects.

ITC01-076

What's in the Box?

Your digital wireless phone typically comes equipped with a battery and a charger. Other accessory options can customize your phone for maximum performance and portability.

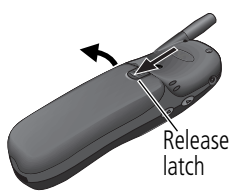
To purchase Motorola Original™ accessories, please contact the Motorola Customer Call Center at 1-800-331-6456 in the United States or 1-800-461-4575 in Canada.

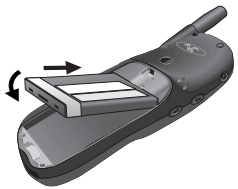
Installing the Battery

Before you can use your phone, you need to install and charge the battery.

Your phone is designed to be used only with Motorola Original batteries and accessories. We recommend that you store batteries in their protective cases when not in use.

Do This	
1	Remove the battery from its protective clear plastic case.
2	If the phone's battery door is already in place, lightly slide down the battery door release latch and lift the battery door off of the phone.



Do This	
3 Insert the battery, printed arrows first, into the battery compartment and push down.	
4 Replace the battery door.	

Charging the Battery

Before you can use your phone, you need to install and charge the battery.

Do This	
1 Plug the travel charger into your phone with the release tab facing up.	
2 Plug the other end of the travel charger into the appropriate electrical outlet.	
3 When your phone indicates that the battery is fully charged, press the release tab and remove the travel charger.	

Turning Your Phone On

Do This		To
1	Press and hold ⏻ (the power key)	turn on your phone
2	Enter your four-digit unlock code and press **OK** (⊙)	unlock your phone, if necessary The unlock code is originally set to 1234, but in some instances your service provider may program a new code.

Sending a Call

To call a number, your phone must be turned on, be unlocked, and have a network connection with adequate signal strength.

Do This		To
1	Extend the antenna.	optimize signal reception **Tip:** Your phone uses a two-stage antenna that must be fully extended for proper operation. You may have to pull on the antenna a second time to extend the antenna to its maximum length.
2	Press the keypad keys	dial the phone number (up to 32 digits) **Tip:** If you make a mistake, press DELETE (⌫) to delete the last digit, or press and hold DELETE (⌫) to clear all digits.
3	Press SND (send key)	send the call

Note: You can make an emergency call even when the phone is locked. See "Dialing an Emergency Number" on page 29.

Ending a Call

Press	To
END (end key)	end the call

Receiving a Call

To receive a call, your phone must be turned on and have a network connection with adequate signal strength. If your phone is locked, you must unlock the phone to answer the call.

When you receive a call, your phone rings and/or vibrates and displays an incoming call message.

Press	To
SND or ANSWER (⌐)	answer the call

Displaying Your Phone Number

From the idle display:

Press	To
MENU #▸	see your phone number

About Your Phone

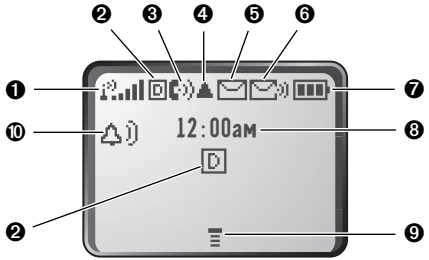
See page 1 for a diagram of your phone that describes basic phone components.

Display

The top section of the display shows phone status indicators. The following illustration shows some of the common indicators that you may see at the top of the display when using your phone.

Messages, phone numbers, and menu options appear in the middle of the display. Text labels at the bottom corners of the display show the current soft key functions. A ≣ (menu) indicator in the bottom center of the display indicates that you can open the main menu or a feature sub-menu to see more options. For more information about the soft key and menu key labels, see "Using the Menu" on page 36.

Some of the phone functions described in this guide must be performed from the idle display. The term *idle display* refers to the standard display that you see when your phone is on and ready to use, when you are *not* on a call or using the menu system.



❶ Signal Strength Indicator Shows the strength of your phone's connection with the network.

Strong No signal

You cannot send or receive calls when the "no signal" indicator is displayed.

Network / Subscription Dependent Feature

❷ Digital (D) or Analog (A) Signal Indicators Your service provider may use one or both of these indicators to indicate whether you are receiving a digital or analog signal.

❸ In Use Indicator Appears when a call is in progress.

❹ Roam Indicator Appears when your phone uses another network system outside your home network. When you leave your home network area, your phone *roams* or seeks another network.

❺ Message Waiting Indicator Appears when your phone receives a text message.

❻ Voice Message Waiting Indicator Appears when you receive a voicemail message.

❼ Battery Level Indicator Shows the amount of charge left in your battery. The more segments visible, the greater the charge.

High Empty

Recharge your battery as soon as possible when you see the **Low Battery** warning message.

❽ Clock Shows the current time. In some instances, your phone may prompt you to enter the correct time when you turn it on.

❾ Menu Indicator Indicates that you can press MENU to open a menu. See "Using the Menu" on page 36.

❿ Alert Setting Indicator Shows the current selected alert. The default alert setting is a ringer.

Loud ring

Soft ring

Vibrate

 Ring and vibrate

Silent

Changing the Zoom Setting

You can set your phone's display to show either three lines or two lines of text plus soft key labels. Three lines of text display more information, while two lines increase text size.

To change the display view, press MENU once, then press and hold MENU again within two seconds of the first press.

You can also adjust the zoom setting from the menu. See the "Zoom" item on page 56.

Volume Keys

Use the upper and lower volume keys to adjust your phone's earpiece and ringer volume. The volume keys are located on the left side of the phone.

When	Press	To
During a call	volume keys	increase or decrease earpiece speaker volume
From the idle display	volume keys	increase or decrease ringer volume

You can also use the volume keys to scroll up or down through menus and lists.

To change keypad volume, see "Customize an Alert Style" on page 83.

Battery Use

Caution: To prevent injuries or burns, do not allow metal objects to contact or short-circuit the battery terminals.

To maximize your battery's performance:

- Always use Motorola approved batteries and battery chargers. The phone warranty does not cover damage caused from using non-Motorola batteries and/or battery chargers.
- New batteries or batteries that have been stored for long periods of time may require a longer charge time.
- Maintain the battery at or near room temperature when charging.
- Do not expose batteries to temperatures below -10°C (14°F) or above 45°C (113°F). Always take your phone with you when you leave your vehicle.
- When you do not intend to use a battery for a while, store it uncharged in a cool, dark, dry place, such as a refrigerator.
- Over extended periods of time, batteries gradually wear down and require longer charging times. This is normal. If you charge your battery regularly and notice a decrease in talk time or an increase in charging time, then it is probably time to purchase a new battery.
- The more you talk on the phone or use phone features (like sending text messages), the less standby time your battery has.

The rechargeable batteries that power this product must be disposed of properly and may need to be recycled. Refer to your battery's label for battery type. Contact your local recycling center for proper disposal methods. Never dispose of batteries in a fire because they may explode.

Sending and Receiving Calls

For basic instructions on how to send a call, end a call, and receive a call, see page 20 of the "Getting Started" section.

Redialing a Number

If you hear an ordinary busy signal, the phone number you dialed is busy.

Press	To
1 END	hang up
2 SND	redial the busy number

Using Automatic Redial

If the network is busy, you hear a fast busy signal, and your phone displays the message `Call Failed`.

When automatic redial is turned on, your phone automatically repeats the call attempt over the next four minutes. When the call goes through, your phone rings or vibrates one time, displays the message `Redial Successful`, and then connects the call.

You must turn on automatic redial to use this feature. See the "Auto Redial" option on page 56 to turn on automatic redial.

When automatic redial is turned off, you can manually activate the feature to redial a phone number. When you hear a busy signal and see the `Call Failed` message:

Press	To
SND or `RETRY` (⊙)	activate automatic redial

Caller ID

The *calling line identification* (caller ID) feature lets you see who is calling before you answer.

- If the caller's name is stored in your phonebook, the phone automatically displays the name. Otherwise, the phone displays the caller's phone number.
- If caller ID information is not available, your phone displays the message `Incoming Call`.

Dialing an Emergency Number

Your service provider programs one or more emergency phone numbers (such as 911) that you can call under any circumstances. You can dial and call the emergency number even when your phone or keypad is locked, or when you are prompted to enter a code or password.

Note: Emergency numbers vary by country. Your phone's emergency number(s) may not work in all locations.

To call the emergency number at any time:

Press		To
1	keypad keys	dial the emergency number (such as 911)
2	SND	call the emergency number

When you call an emergency number, your phone displays Emergency Mode. During the next ten minutes, the emergency operator may place a call back to your phone, unless you make another call or turn the phone off.

Dialing With Speed Dial

The *speed dial* feature lets you dial any phonebook entry with a minimal number of keypresses.

Whenever you store an entry in your phonebook, the entry is assigned a unique speed dial number. The speed dial number identifies the location where the entry is stored in phonebook memory. If you know the speed dial number for the phonebook entry you want to call, you can use the speed dial feature.

Press		To
1	keypad keys	enter the one-, two-, or three-digit speed dial number for the entry you want to dial
2	(#)	submit the number **Note:** On some networks, you can skip this step for phonebook entries stored in speed dial locations 1 through 99.
3	(SND)	call the entry

To make an entry in the phonebook or view an existing entry's speed dial number, see "Storing a Phonebook Entry" on page 60.

Dialing With One-Touch Dial

You can call phonebook entries 2 through 9 with the push of a single key. Just press and hold the one-digit speed dial number for one second.

You *cannot* use one-touch dial to call phonebook entry number 1, since the 1 key is reserved for dialing your voicemail number. See "Listening to a Voicemail Message" on page 69.

To store entries in locations 2 through 9 in the phonebook, see "Storing a Phonebook Entry" on page 60.

Additional Dialing Features

In addition to pressing numbers on your keypad, you can insert numbers or characters and send calls in a variety of ways.

While dialing (with digits visible in the display):

Do This	To
Press MENU > Attach Number	attach a number from the phonebook or recent calls list to the end of the digits you entered
Press MENU > Send Message	create a text message addressed to the number entered

Do This	To
Press MENU and then scroll to and select one of the following:	insert a special character when making a call that requires you to dial and send additional digits (for example, to make a calling card call, or to retrieve messages from an answering machine):
• Insert Pause (to insert a p)	• **Pause** tells your phone to wait until the call connects before it automatically sends the next digit(s) in a series.
• Insert Wait (to insert a w)	• **Wait** tells your phone to wait until the call connects, and then to prompt you for confirmation before it sends the next digit(s).
• Insert 'n' (to insert an n)	• **'n'** tells your phone to prompt you for a number before dialing the call. The number you enter is inserted into the dialing sequence in place of the n character

You can also call numbers using these features:

Do This	To Call
Press and release the voice key on the right side of your phone and say the entry's name (in two seconds).	a phone number using the voice dial feature See "Recording a Voice Name For a Phonebook Entry" on page 62.
Press MENU > Recent Calls > Received Calls or Dialed Calls > *entry to call*	a missed call or a number from a call you recently dialed or received

Using Features While On a Call

Using Call Waiting

If you subscribe to call waiting, an alert tone sounds while you are on a call to indicate that you have received a second call.

To put the first call on hold and answer the second call:

Press	To
1 SND	answer the new call
2 SND	switch back to the first call

Making a Three-Way Call

During a call, you can call and connect a third party so that the three of you can talk together. You cannot do this if you already have a call on hold.

While you are on a call:

Press	To
1 keypad keys	enter the third person's number **Note:** On some networks, you must press SND before entering the third person's number.
2 SND	call the number and connect the new person

Press	To
3 SND	connect the two calls
4 END	end the entire call

Additional On-Call Features

While you are on a call, you can perform the following tasks:

Do This	To
Press MUTE (⊘)	mute a call
Press MENU > My Tel. Number	view your phone number
Press MENU > Send Tones	send a number to the network as DTMF tones, for credit card calling or password entry **Note:** This option appears only when you enter digits or select stored digits during a call. To activate DTMF tones, see the "DTMF" item on page 57.
Press MENU > Received Calls or Dialed Calls	view the telephone numbers from calls you have recently received or dialed
Press MENU > Messages	view or send messages from the message center
Press MENU > Other Information	view a list of feature specifications for your phone

Using the Menu

Navigating to a Feature

You can access many of your phone's features by using these keys to move through the menu system:

Left Soft Key
Perform the function shown in the lower left corner of the display (usually EXIT or BACK).

Volume Keys
Move up or down through menus and lists.

Menu Key
Enter the menu system, or open a sub-menu, when ☰ appears in the bottom center of the display.

End Key
Exit the menu system without making changes, return to the idle display.

Right Soft Key
Perform the function shown in the lower right corner of the display (usually SELECT the highlighted menu item).

Scroll Keys
Move up or down through menus and lists.

(*) and (#)
Cycle through and set the value of the highlighted menu item.

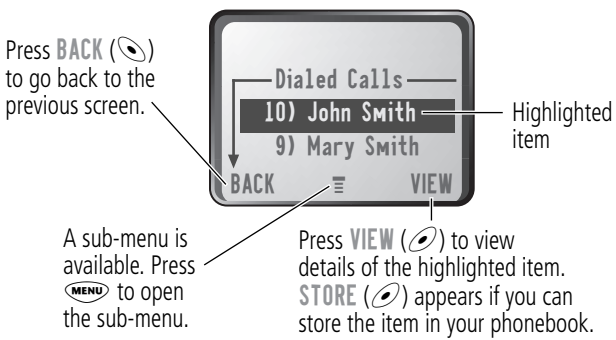
This guide shows you how to navigate to a specific menu feature as follows:

Find the Feature MENU > Recent Calls > Dialed Calls

The > symbol means that you should scroll to and select the feature. This example shows that you must press MENU, scroll to and select Recent Calls, then scroll to and select Dialed Calls to see the dialed calls list.

Selecting a Feature Option

Some features require you to select an item from a list:


Press BACK (-) to go back to the previous screen.
Dialed Calls
10) John Smith
9) Mary Smith
Highlighted item
BACK
VIEW
A sub-menu is available. Press MENU to open the sub-menu.
Press VIEW (+) to view details of the highlighted item. STORE (+) appears if you can store the item in your phonebook.

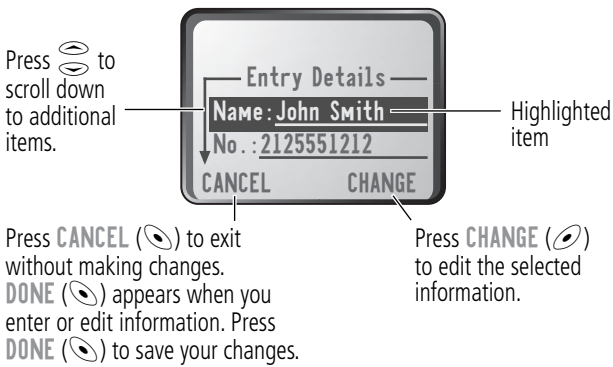
Select an item by highlighting it. Use one of the following approaches:

- Press ⇕ to scroll up or down to the item you want.
- In a numbered list, press a number key to highlight the item.

- In an alphabetized list, press a key multiple times to cycle through the letters on the key and highlight the closest matching list item.

Entering Feature Information

Features such as the phonebook require you to enter information to fill in an entry's details:


Press to scroll down to additional items.
Entry Details
Name: John Smith
No.: 2125551212
CANCEL
CHANGE
Highlighted item
Press CANCEL to exit without making changes. DONE appears when you enter or edit information. Press DONE to save your changes.
Press CHANGE to edit the selected information.

- Enter numbers or text with the keypad. (See "Entering Text" on page 40.)
- When an item has a list of possible values, press or to scroll through and select a value.
- When an item has a list of possible numeric values, press a number key to set the value.

- If you enter or edit information and then decide that you do not want to save your changes, press END to exit without saving.

The message center lets you compose and send text messages. (See "Entering Text" on page 40.) A *flashing cursor* shows you where the text will appear:

Flashing cursor indicates insertion point.

Press BROWSE (⊙) to view and insert a name, number, or message from previously stored information.

Press CANCEL (⊘) to exit without making changes.

Press MENU to open the sub-menu.

When you enter text, the flashing cursor changes to a *block cursor*, and the soft key functions change:

Block cursor indicates current highlighted character.

Press OK (⊙) to accept and store the text.

Press DELETE (⊘) to delete the character to the left of the insertion point.

After two seconds, the block cursor reverts to a flashing cursor and moves to the next position.

Entering Text

Various text entry methods make it easy for you to enter names, numbers, email addresses, and text messages on your phone.

You can enter all characters (letters, numbers, and symbols) using the standard tap method. Other text modes let you easily enter numbers and symbols, or insert text already stored on your phone. Finally, a predictive text mode lets you enter text messages with a minimum of keypresses.

Choosing a Text Mode

To activate a text mode, press MENU from any text entry screen and select the text mode from the Entry Method menu:

iTAP	Let the phone predict each word as you enter it, then choose the word from a list (see "Predictive Text Entry with iTAP™ Software" on page 44).
Tap Method	Enter characters one at a time by pressing the key for the letter, number, or symbol (see "Tap Method" on page 41). **This is the standard mode for entering text on your phone.**
Numeric	Enter only the number that appears on each key.
Symbol	Enter symbols only (see "Symbol Mode" on page 43).
Browse	Browse through your phonebook and recent calls lists to select a name or number to enter.

Note: The text mode you select remains active until you change it by selecting another mode.

Tap Method

Tap method is the default standard mode for entering text on your phone.

To activate tap method from any text entry screen, press MENU and select the Tap Method menu option.

To enter text using the tap method:

Do This		To
1	Press a number key one or more times	cycle through the characters associated with the key and select the character you want (see the "Character Chart" on page 42).
2	Continue to press number keys	enter the rest of the characters in the text message
3	Press OK (⊙)	accept and store the text when you are finished

General Text Entry Rules

Use the keypad to enter letters, numbers, symbols, and other characters with the tap method. Press the same key repeatedly to cycle through available characters (see the "Character Chart" on page 42):

- To enter text at a flashing cursor, press a number key.
- To enter the desired character, press the number key as many times as necessary. For example, press 2ABC three times to enter the "c" character.

- Press and hold a number key to switch between tap method and numeric text entry mode.
- To move the flashing cursor up or down one line in a text message, or to change a character in block cursor to uppercase or lowercase, press ⌃⌄.
- To move the flashing cursor to the left or right in a text message, press * or #.
- If you do not press a key for two seconds, the character in the block cursor is accepted, and the cursor moves to the next position.
- The first character of every sentence is capitalized unless you manually change it. (Press ⌃⌄ down to force the character to lowercase while it is highlighted by the block cursor.)

Character Chart

Use this chart as a guide for entering spaces, numbers, letters, symbols, and other characters with the tap method.

1	*space* . 1 ? ! , @ _ & ~ : ; " - ( ) ' ¿ ¡ % £ $ ¥ ¤ €
0	+ - 0 x * / \ [ ] = > < # §

Symbol Mode

Your phone provides an alternate way to find and enter symbol characters in a text message. You can view and select from a variety of available symbols.

To activate symbol mode from any text entry screen, press MENU and select the Symbol menu option.

To enter a symbol in symbol mode:

Do This		To
1	Press a number key one time	display its symbol options (see the "Symbol Chart" on page 44) The symbols associated with the key you pressed are shown at the bottom of the display. If necessary, press other keypad keys to find the symbol you want.
2	Press * or # **or** the number key multiple times	highlight the symbol you want
3	Press SELECT (-)	add the highlighted symbol to the text area at the top of the display

Symbol Chart

Use this chart as a guide for entering symbols in symbol mode.

1	*space* . ? ! , @ _ & ~ : ; " - ( ) ' ¿ ¡ % £ $ ¥ ¤ €
2 ABC	@ _ \
3 DEF	/ : ;
4 GHI	" & '
5 JKL	( ) [ ] { }
6 MNO	¿ ¡ ~
7 PQRS	< > =
8 TUV	$ £ ¥ ¤ €
9 WXYZ	# % *
0	+ - x * / = > < # §

Predictive Text Entry with iTAP™ Software

iTAP™ software provides a predictive text entry method that lets you enter the letters of a word using only one keypress per letter.

You must activate iTAP software prior to entering letters. You can do this from any text entry screen by pressing MENU to open the Entry Method menu and selecting the iTAP menu option.

Enter Words

To enter a word with iTAP software:

Do This		To
1	Press a number key one time	enter the first letter of the word The letters associated with the key you pressed are shown at the bottom of the display.
2	Press number keys (one per letter)	enter the rest of the word Alternative words and letter combinations are shown at the bottom of the display based on the keys you press. These word choices are updated with each keypress.
3	When you have entered all the letters of the word, press * or #	locate and highlight the word you want
4	Press SELECT (⊙)	add the highlighted word to the text area at the top of the display A space is automatically inserted after the word.

Enter Novel Words

You may enter a word that is not in the iTAP software dictionary. If you enter all the letters of a word but the word is not displayed:

Do	This	To
1	Press DELETE (⌫) one or more times	delete one or more letters until you see a letter combination that matches the start of the word
2	Press * or #	highlight the letter or letter combination
3	Press SELECT (●), then press *	shift the text entry cursor to the left and "lock" the selected portion of the word
4	Continue entering letters and highlighting letter combinations	spell the word

Menu Feature Descriptions

This chapter describes all of your phone's features in order of the menu map shown on page 3. Some descriptions also include page numbers where you can find more detailed information. If you would like to learn more about a specific feature, a reference guide for your phone is also available. To obtain a copy of the reference guide or another copy of this user guide, see the Motorola Web site at:

`http://motorola.com/consumer/manuals` (United States)
`http://www.motorola.ca/manuals` (Canada)

or contact the Motorola Customer Call Center at 1-800-331-6456 (United States) or 1-800-461-4575 (Canada).

Main Menu

Recent Calls

View the numbers of your recent dialed calls and received calls. Press SND to go directly to the dialed calls list from the idle display.

Received Calls MENU > Recent Calls > Received Calls

View a list of recently received calls.

Your phone keeps a list of the numbers from calls you recently received, even if you did not answer. You can scroll through the list until you find an entry you want to call, store, or delete.

Dialed Calls MENU > Recent Calls > Dialed Calls

View a list of recently dialed calls. Your phone keeps a list of recently dialed phone numbers, even if the calls did not connect. A ✓ means the call connected. You can scroll through the list until you find an entry you want to call, store, or delete.

Notepad MENU > Recent Calls > Notepad

Stores the last phone number entered on the keypad. The number may be the last number you called or a number you entered during a phone call.

You can call the number on the notepad or you can store it as part of a phonebook entry.

Call Times MENU > Recent Calls > Call Times

View call timers, which record *network connection time,* the elapsed time from the moment you connect to your service provider's network to the moment you end the call by pressing END.

The amount of network connection time you track on your timer may not equal the amount of time for which you are billed by your service provider. For billing information, please contact your service provider directly.

You can scroll through a list of five timers: Last Call, Dialed Calls, Received Calls, All Calls, and Lifetime.

PHONEBOOK MENU > Phonebook

MENU > Phonebook Menu

Create and manage a personalized phonebook. You can call phone numbers stored in the phonebook or, for entries with email addresses, you can send a text message directly from your phone.

Create a phonebook entry	Enter a name, phone number or email address, and type indicator, such as home or work. The phone will assign a speed dial number. See page 60.
Set up voice dial	Record a voice name you can use to dial a phone number by saying the person's name. See page 62.
Edit a phonebook entry	View and then update details of a phonebook entry.
Dial a phonebook entry	Use the phonebook list, voice dial, speed dial, or one-touch dial to call a number or send a text message to an email address. See pages 28 and 64.
Delete a phonebook entry	Use the Phonebook Menu to remove outdated entries.
Sort phonebook entries	Accept the standard sort by speed dial number or sort entries by name or voice dial.

QUICK DIAL MENU > Quick Dial

Dial pre-programmed customer service numbers.

Your service provider may program one or more quick dial numbers, such as the customer service number, into your phone. You can call them by selecting them from the quick dial list.

Note: Your service provider may use a different name for this feature.

RADIO

MENU > Radio

Listen to FM radio stations. This menu feature is displayed only when the optional Motorola Original™ FM Stereo Radio headset is plugged into the accessory connector port on your phone. See "Radio" on page 65.

MESSAGES

MENU > Messages

Adjust message settings, view and manage the various types of messages your phone can receive and/or send:

Voicemail	Store and call the voicemail number provided by your service provider. See "Messages—Voicemail" on page 68.
Text Msgs	Send and receive text messages. See "Messages—Text" on page 70.
Browser Alerts	Read alert messages received by your micro-browser.
Quick Notes	Select and send pre-written messages from the quick notes list.
Outbox	View all outgoing text messages, delivered and undelivered.

Drafts — Store and edit text messages that you have written but not sent.

SHORTCUTS MENU > Shortcuts

Create keypad or voice shortcuts to menu features.

VOICE NOTES MENU > Voice Notes

Use the voice key to record and playback messages and phone calls. See "Voice Notes" on page 78.

BROWSER MENU > Browser

Access Web pages and run Web-based applications.

The micro-browser delivers WAP (Wireless Application Protocol) pages from your service provider directly to your phone. See "Micro-Browser" on page 80.

Settings Menu

RING STYLES

Style MENU > Settings > Ring Styles > Style

Select a type of ring or vibration alert style for incoming calls and messages. See "Ring Styles" on page 82.

Style Detail MENU > Settings > Ring Styles > *Style* Detail

Change details about the ring or vibration alert style. *Style* represents the name of the current alert setting style. See "Ring Styles" on page 82.

My Tones MENU > Settings > Ring Styles > My Tones

Create custom alert tones for your phone. See "Use the My Tones Feature" on page 84.

PHONE STATUS

My Tel. Number MENU > Settings > Phone Status > My Tel. Number

View, enter, and edit your name and phone number.

Battery Meter MENU > Settings > Phone Status > Battery Meter

View a detailed battery charge meter.

Other Information MENU > Settings > Phone Status > Other Information

View the phone's feature specifications (if available from the service provider).

CONNECTION

Connect your phone to a computer or hand-held device to send and receive data and fax calls on the connected device. Connect your phone using a serial cable or USB cable.

Incoming Call MENU > Settings > Connection > Incoming Call

Specify the format for the next incoming call. You can select Fax In Only, Data In Only, or Normal.

IN-CALL SETUP

Use the in-call setup menu to set the features that are active during a call, such as the in-call timer and call answering options.

In-Call Timer MENU > Settings > In-Call Setup > In-Call Timer

Adjust call timer display and beep settings. You can set your timer to beep at a selected interval during your calls. (60 seconds is the default.) You can also turn on or off a display timer during calls as follows:

Time	Display the elapsed time for the current call.
Off	Hide the in-call timer.

Answer Options MENU > Settings > In-Call Setup > Answer Options

Turn call answering options on or off:

Multi-Key	Answer by pressing any key.

Security

Lets you change the four-digit unlock code and a six-digit security code that will prevent other users from accessing your personal information or modifying your phone settings.

Phone Lock MENU > Settings > Security > Phone Lock

Lock and unlock your phone. See "Locking and Unlocking Your Phone" on page 90.

Lock Keypad MENU > Settings > Security > Lock Keypad

Lock and unlock your keypad to prevent accidental keypresses that might inadvertently dial an emergency number or one-touch dial number.

Lock Application MENU > Settings > Security > Lock Application

Lock and unlock specific phone applications (such as phonebook) so that users must enter the unlock code before they can use the applications.

Restrict Calls MENU > Settings > Security > Restrict Calls

Stop all incoming and/or outgoing calls, or restrict outgoing calls to the numbers stored in your phonebook.

You can still place calls to emergency numbers when outgoing calls are restricted. Your phone still receives incoming text messages when incoming calls are restricted.

New Passwords (MENU) > Settings > Security > New Passwords

Change your unlock code or your security code (originally set to 000000). See "Assigning a New Code or Password" on page 90.

Other Settings

Use the other settings menu to view or adjust personal options, the initial setup of your phone, the way your phone connects to your service provider's network, and the setup of optional equipment needed for hands-free use.

Personalize (MENU) > Settings > Other Settings > Personalize

Set several personal phone options:

Main Menu	Change the order of the main menu. See "Reordering Menu Items" on page 88.
Keys	Change the functions of the soft keys in the idle display. See "Customizing a Soft Key Function" on page 89.
Greeting	Change the text displayed when you turn on your phone.
Banner	Change the text that appears in the idle display.
Quick Dial	Change quick dial number(s).

Initial Setup

MENU > Settings
> Other Settings
> Initial Setup

Set many basic phone options:

Time and Date	Set the phone's time and date.
Auto PIN Dial	Some networks require an authenticating PIN to allow outgoing calls. Use this feature to automatically dial your PIN.
Auto Redial	Automatically redial calls that fail due to busy network conditions.
Backlight	Set the amount of time that the display backlight remains on, or turn off the backlight to conserve battery power.
Zoom	Switch between three lines (Zoom Out) and two lines (Zoom In) of display text.
Scroll	Force the cursor to stop or wrap around when it reaches the top or bottom of a list in the display.
Animation	Turn animation off (to conserve the battery) or on. Animation makes your phone's menus move smoothly as you scroll up and down.
Language	Set the language for phone menus.

Contrast	Adjust the contrast setting for your display.
DTMF	Switch DTMF tones to be long, short, or off.
Master Reset	Reset all options back to their original factory settings *except* for the unlock code, security code, and lifetime timer.
Master Clear	Reset all options back to their original factory settings *except* for the unlock code, security code, and lifetime timer, *and* clear all user settings and entries. **Note:** This option *erases all user-entered information* stored in your phone's memory, including phonebook entries. Once you erase the information, it cannot be recovered.

Network

MENU > Settings > Other Settings > Network

View and adjust your phone's network settings.

Your service provider registers your phone to a network. You can view information about the current network, change how your phone searches for a network, and turn on/off alerts that indicate when a call is dropped or network registration changes.

Car Settings

MENU > Settings
> Other Settings
> Car Settings

Adjust hands-free settings for an optional Motorola Original™ car kit you have purchased.

Note: The use of wireless devices and their accessories may be prohibited or restricted in certain areas. Always obey the laws and regulations on the use of these products.

Auto Answer	Set the car kit to automatically answer calls after two rings.
Auto Handsfree	Set your phone to detect and automatically route calls to the car kit.
Power-Off Delay	Specify the amount of time the car kit delivers power to the phone after you switch off the ignition.
Charger Time	Specify the amount of time the car kit uses your car battery to charge your phone after you switch off the ignition.

Headset

MENU > Settings
> Other Settings
> Headset

Set your phone to automatically answer calls after two rings when connected to a headset.

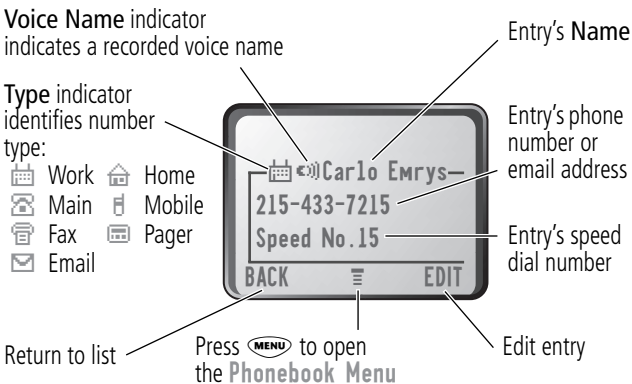
Phonebook

You can store a list of names and phone numbers or email addresses in your phone's electronic phonebook. You can view these entries and call them directly from your phone.

For email addresses, you can send a text message directly from your phone.

To see the list of names stored in your phonebook, press MENU > **Phonebook** from the idle display. Scroll to a name and press **VIEW** (⊙) to view details of the phonebook entry as shown in the following display.

Fields in a Phonebook Entry



Storing a Phonebook Entry

A phone number is required for a phonebook entry. All other information is optional.

Shortcut: Enter a phone number in the idle display, then press STORE (⊙) to create a phonebook entry with the number in the No. field. Go directly to step 3 in the following procedure to enter additional information and store the entry.

Enter Information

Find the Feature MENU > Phonebook
MENU > New

Press		To
1	⌃⌄	scroll to Phone Number or Email Address
2	SELECT (⊙)	select the type of entry
3	CHANGE (⊙)	select Name
4	keypad keys	enter a name for the phonebook entry (see "Entering Text" on page 40)
5	OK (⊙)	store the name
6	CHANGE (⊙)	select No. or Email
7	keypad keys	enter the phone number or email address
8	OK (⊙)	store the phone number or email address

Press	To
9 CHANGE (⊙)	select Type **Note:** This option is not available for email entries. Your phone automatically applies an ✉ (email) type indicator when you enter an email address.
10 ⊖	scroll to the type of phone number
11 SELECT (⊙)	select the number type
12 RECORD (⊙) **or** Go to step 13 if you do not want to record a voice name for the entry	record a voice name for the entry, if desired See "Recording a Voice Name For a Phonebook Entry" on page 62.
13 ⊖	scroll to Speed No., the number to *speed dial* the entry The next available speed dial number is assigned to a new phonebook number by default.
14 CHANGE (⊙)	select Speed No. if you want to change it
15 keypad keys	enter a different speed number, if desired

Press	To
16 OK (⊙)	save the modified speed number If your chosen speed number is already assigned to another entry, you are asked if you want to replace that entry.
17 SELECT (⊙)	select MORE if you want to create another entry with the same Name **Note:** You must enter a name and number to use this option.

Complete Phonebook Entry

When you are finished entering information for a phonebook entry:

Press	To
DONE (⊘)	store the entry and return to the phonebook list

Recording a Voice Name For a Phonebook Entry

You can record a voice name when you create a new phonebook entry, or when you edit a previously stored phonebook entry. This lets you use voice dial to call the number without dialing (see "Voice Dial" on page 64).

Tip: Make your voice recording in a quiet location. Hold the phone about four inches (10 centimeters) from your mouth, and

speak directly into the phone's microphone in a normal tone of voice.

Find the Feature MENU > Phonebook

Do This		To
1	Press ⇕	scroll to the entry that needs a voice name
2	Press VIEW (⊙)	display the entry's detailed view
3	Press EDIT (⊙)	edit the phonebook entry
4	Press ⇕	scroll to Voice Name
5	Press RECORD (⊙)	begin the recording process The phone displays Press Voice key then say name.
6	Press and release the voice key on the right side of your phone and say the entry's name (in two seconds)	record the voice name The phone displays Press Voice Key then REPEAT name.
7	Press the voice key and repeat the name	confirm the voice name The phone displays Trained: Voice Name.
8	Press DONE (⊙)	store the voice name

Dialing a Phonebook Entry

You can use the phonebook list, voice dial, speed dial, or one-touch dial to call a number (or send a text message to an

email address) stored in your phonebook. To use speed dial, see "Dialing With Speed Dial" on page 30. To use one-touch dial, see "Dialing With One-Touch Dial" on page 31.

Phonebook List

To call a number or send email to an entry in the phonebook list:

Find the Feature MENU > Phonebook

Press	To
1 ⌃⌄	scroll to the entry you want to call
2 SND	send the call (for a phone number) **or** open a new message form with the entry's address in the To field (for email entries)

Voice Dial

To call a number or send an email using voice dial:

Do This	Result
Press and release the voice key on the right side of your phone and say the entry's name (in two seconds).	Your phone goes to the entry in the phonebook list, repeats the voice name, waits two seconds, then automatically dials the call (for a phone number) or opens a new message form (for an email address).

Radio

You can use your phone to tune, store presets, and listen to FM radio stations when the optional Motorola Original™ FM Stereo Radio Headset accessory is plugged into the phone's accessory connector port.

Turning the Radio On and Off

Press	To
Radio (⊙)	turn the radio on and off

Alternatively, you can use the following procedure:

Press	To
1 MENU	open the menu
2 ⇕	scroll to Radio
3 On (⊙) or Off (⊙)	turn the radio on or off

Note: The Radio (⊙) soft key option and Radio menu feature are displayed only when the FM Stereo Radio Headset is plugged into the accessory connector port.

Tuning a Station

Do This	To
Press ⇕	scroll up or down to the next frequency
or	
Press and hold ⇕	scroll up or down to the next available stereo station

Storing a Preset

To store a station to a preset that you can recall later:

Do This	To
Press and hold a number key (1 to 9)	assign its preset number to the tuned station

Selecting a Preset

To select a preset radio station:

Press	To
a number key (1 to 9)	tune the station stored at that preset location

Sending and Receiving Calls With the Radio On

Your phone interrupts the radio signal and rings or vibrates as usual to notify you of an incoming call, message, or other event. When you receive a call:

Do This	To
Press IGNORE (-)	ignore the call
Press ANSWER (+) **or** Press the button on the FM Stereo Radio Headset microphone	answer the call **Note:** You can use the FM Stereo Radio Headset microphone to converse with the other party during a call.

To end the call and resume the FM broadcast:

Do This	To
Press END **or** Press and hold the button on the FM Stereo Radio Headset microphone	end the call

Turn the radio off before dialing outgoing calls from the phone keypad. You do not have to turn off the FM radio feature to dial emergency numbers, or numbers selected from your phonebook or other lists.

Tip: To dial a recently called number, press SND or the button on the FM Stereo Radio Headset microphone to go to the dialed calls list. For more information, see "Recent Calls" on page 47.

Messages—Voicemail

You can listen to your voicemail messages by calling your network voicemail phone number. Voicemail messages are stored on the network—not on your phone. Contact your service provider for more details.

Storing Your Voicemail Number

Store your voicemail number in your phone to make it faster and easier to use voicemail. Your voicemail number is provided by your service provider.

Find the Feature MENU > Messages
MENU > VoiceMail Setup

Press		To
1	keypad keys	enter the phone number for your voicemail
2	OK (⊙)	store the number

Receiving a New Voicemail Message

When you receive a voicemail message, your phone displays the ✉ (voice message waiting) indicator and a New VoiceMail notification. (Some networks only indicate when you have messages, whether they are new or not.) If reminders are turned on, your phone sends a reminder every five minutes until you close the new message notification, listen to the message, or turn off your phone.

From the new message notification:

Do This	To
Press CALL (⌐) **or** Press and hold 1	call your voicemail phone number and listen to the message

Listening to a Voicemail Message

To listen to your voicemail messages at any time:

Find the Feature MENU > Messages > VoiceMail

Your phone calls the voicemail phone number you stored. If you do not have a voicemail number stored, the phone guides you through storing a number.

Shortcut: You can also press and hold 1 to listen to your voicemail message(s). A ✉ (voicemail) indicator is printed on the 1 key as a function reminder.

Turning Off the Voice Message Waiting Indicator

When you receive a voicemail message, your phone displays the ✉ (voice message waiting) indicator until you listen to the message. To clear the voice message waiting indicator manually, you can reset the voicemail counter to zero.

Find the Feature MENU > Messages
MENU > Clear Count

Messages—Text

Text messages are brief messages that you can send and receive (such as Where are we meeting?). Received messages appear on your phone display or in your text message inbox.

Quick notes are pre-written text messages that you can customize and send quickly.

Your text message inbox must be set up *before* you can send and receive these messages. The total number of messages the inbox can hold depends on the length of the messages, and the number of other messages and drafts stored in your phone.

Setting Up the Text Message Inbox

Note: Your service provider may have already programmed the text message inbox settings for you.

Find the Feature MENU > Messages
MENU > Text Msg Setup

Press	To
1 CHANGE (⊙)	change the Cleanup setting
2 ⊙	scroll to the number of days that messages should stay in the text message inbox, or the number of messages that should be kept in the inbox

Press		To
3	SELECT (⊙)	select the cleanup setting If you select Custom, continue. Otherwise, go directly to step 8 to complete the procedure.
4	⌃⌄	scroll to the number of days or messages
5	▶ (⊙)	move to the type identifier
6	⌃⌄	scroll to days or msgs
7	DONE (⊙)	store the custom cleanup period
8	DONE (⊙)	save the text message inbox settings

Receiving a Text Message

Note: Your text message inbox must be set up before you can receive text messages.

When you receive a new message, your phone displays the ✉ (message waiting) indicator and a New message notification, and gives an alert. If reminders are turned on, your phone sends a reminder every five minutes until you close the new message notification, read the message, or turn off your phone.

From the new message notification:

Press	To
READ (⊙)	open the message (or your text message inbox if there are multiple messages)

As memory space for storing messages gets close to full, the ✉ (message waiting) indicator flashes and your phone displays Memory is Low! when you receive a new message. When no more messages can be stored, your phone displays Memory is Full! and the network temporarily holds your new messages. To receive these new messages, you must delete some existing messages from your inbox, outbox, or drafts folder.

Reading, Locking, or Deleting a Text Message

You can open your text message inbox to read, lock, or delete messages at any time.

Messages in the text message inbox are sorted from newest to oldest. The oldest messages are deleted automatically as specified by the inbox cleanup setting (see "Setting Up the Text Message Inbox" on page 70). If you want to save a message, you should lock it to prevent it from being deleted during cleanup.

Find the Feature MENU > Messages > Text Msgs

Press	To
1 ⌃ ⌄	scroll to the message you want (✉! = unread and urgent, ✉ = read, 🔒 = read and locked)
2 READ (⊘)	open the message

Press	To
3 SAVE (⊘)	close the message without changes
or	
DELETE (⊙)	delete the message
or	
MENU	open the Text Msg Menu and scroll to other operations, such as Lock/ Unlock

Sending a Text Message

You can create and send a text message to one or more recipients. The text message feature lets you manually enter each recipient's phone number or email address, or select one or more numbers/addresses from the phonebook or recent calls lists.

Note: When you manually enter phone numbers or email addresses in the To field, you must insert a space between each phone number/address. Press 1 one time, wait for the space to appear, then enter the next phone number or email address.

Find the Feature MENU > Messages
MENU > Create Message

Press	To
1 CHANGE (⊙)	select To

Press		To
2	keypad keys	enter one or more phone numbers or email addresses where you want to send the message **Tip:** Remember to press 1 one time to insert a space between each phone number/address that you enter manually.
	or	
	BROWSE (OK)	select one or more phone numbers or email addresses from the phonebook or recent calls lists
3	OK (OK)	store the number(s) and/or email address(es)
4	CHANGE (OK)	select Msg
5	keypad keys	enter the text message (see "Entering Text" on page 40) **Note:** Message length is limited. A two-digit counter at the top of the display shows how many characters are left.
6	OK (OK)	store the text message
7	CHANGE (OK)	select Priority
8	⇕	scroll to the priority you want
9	SELECT (OK)	set the priority
10	CHANGE (OK)	select Call

Press		To
11	keypad keys	enter the number you want your recipient to call back (the message's From field)
12	OK (⊙)	store the number
13	DONE (⊙)	finish the message Your phone displays Send Message Now?
14	YES (⊙) **or** NO (⊙)	send the message cancel the message or save it as a draft A saved message is stored in the drafts folder, where you can edit it and send it at a later time.

Sending a Quick Note Text Message

Quick notes are short, pre-written text messages that you can create, select, edit, and send quickly (for example, Meet me at . . .). You can also create new quick note messages and store them for later use.

To send a quick note message:

Find the Feature MENU > Messages > Quick Notes

Press		To
1	⊙	scroll to the quick note

Press	To
2 READ (⊙)	read the quick note
or	
MENU	open the Quick Note Menu to perform other procedures as described in the following list

The Quick Note Menu includes the following options:

Option	Description
New	Open an editor where you can create a new quick note. Enter text and press OK (⊙) to save it as a quick note.
Edit	Open an editor where you can edit the selected quick note. Edit the quick note text and press OK (⊙) to save your changes.
Delete	Delete the selected quick note.

Option	Description
Send	Open a new message, with the selected quick note text in the Msg field. Complete the other fields in the message (for details, see "Sending a Text Message" on page 73). To send the quick note to multiple recipients, enter multiple phone numbers and/or email addresses in the To field as described in step 2 of the procedure for "Sending a Text Message" on page 73.

Voice Notes

The voice note feature lets you record personal messages or phone calls. You can play back a voice note at any time. There are no pre-recorded voice notes on your phone.

Recording a Voice Note

Use this procedure to record a voice note when the idle display is visible, or use it during a phone call to record the call. Your phone plays an alert tone to notify the other party that the call is being recorded.

Note: Recording phone calls is subject to varying state and federal laws regarding privacy and recording of conversations.

Tip: Make your voice recording in a quiet location. Hold the phone about four inches (10 centimeters) from your mouth, and speak directly into the phone's microphone in a normal tone of voice.

Do This		Result
1	Press and hold the voice key on the right side of your phone for the duration of the recording.	A tone sounds in the earpiece and the phone displays the Recording Voice Note message.
2	Speak your voice note into the phone while continuing to hold the voice key.	The phone records the message and displays a recording timer.
3	Release the voice key to stop recording.	The phone displays the voice notes list number and the total recording time.

Playing a Voice Note

To play a recorded voice note:

Find the Feature MENU > Voice Notes

Press	To
1 ⊖ ⊕	scroll to the voice note
2 PLAY (⊙)	play the voice note

When an optional Motorola Original™ headset accessory or FM Stereo Radio Headset accessory is connected to your phone, voice note playback is automatically routed to the headset.

Tip: You can play a voice note while taking a call. It won't be transmitted to the other party.

Micro-Browser

The micro-browser lets you access Web pages on your phone. Contact your service provider to set up access, if necessary.

Starting a Micro-Browser Session

To open the micro-browser:

Find the Feature MENU > Browser

The micro-browser displays the home page set up by your service provider.

Press	To
1 ⌃ ⌄	scroll to a bookmark or service
2 SELECT (⊙)	select the service

Shortcut: If you open a text message with a Web address (URL) embedded in it, you can press MENU > Go To to launch the micro-browser and go directly to the URL. If more than one URL is embedded, you can select one from a list.

If you are unable to establish a network connection with the micro-browser, contact your service provider.

Interacting With Web Pages

You can perform the following operations on a Web page:

Do This	To
Press ⊖	scroll through a text message
Press ⊖ and then SELECT (⊙)	scroll through and select items in a list
Press keypad keys and then OK (⊙)	enter requested information **Tip:** Press ⊛ to delete one letter at a time if you make a mistake.
Press ⊖ to scroll to a phone number on a Web page, then press SND	call the number from the micro-browser
Press ⊛	go back to the previous Web page
Press MENU	open the Browser Menu

Adjusting Your Settings

You can adjust a wide variety of phone settings to suit your needs.

Ring Styles

Your phone rings or vibrates to notify you of an incoming call, message, or other event. This ring or vibration is called an *alert*. You can select one of five different alert styles:

Loud ring	Soft ring
Vibrate	Ring and vibrate
Silent	

The alert setting indicator in your display shows the current alert style (see illustration on page 23).

Each alert style contains settings for ringer and keypad volume. It also includes alert tone settings for different events: incoming calls, text messages, voicemail messages, data calls, fax calls, alarms, and reminders. You can modify the settings in each style.

Select an Alert Style

Find the Feature MENU > Settings > Ring Styles > Style

Press	To
1	scroll to the alert style you want to use

Press	To
2 SELECT (⊙)	select the alert style The phone displays the Changed: Style message.

Customize an Alert Style

You can customize an alert style by changing the alerts used for specific events (such as incoming calls, text messages, etc.). Your phone includes multiple preset alert tones and vibrations. Any changes you make are saved to the current alert style.

Tip: This feature also lets you set the alert style's ringer volume and keypad volume.

Find the Feature MENU > Settings > Ring Styles > *Style* Detail

Note: *Style* represents the name of the current alert style.

Press	To
1 ⊙	scroll to the event for which you want to set a new alert
2 CHANGE (⊙)	select the event The phone displays the list of available alerts.
3 ⊙	scroll to the alert you want for the event

Press	To
4 SELECT (⊙)	select the alert The phone displays the Changed: *Event Alert* message.

Use the My Tones Feature

You can create custom alert tones for your phone. The tones you create appear in the list of available alerts (see "Customize an Alert Style" on page 83).

Creating a Tone

Find the Feature MENU > Settings > Ring Styles > My Tones > [New Tone]

Press	To
1 CHANGE (⊙)	select Notes
2 keypad keys	enter notes for the tone
3 OK (⊙)	store the notes
4 CHANGE (⊙)	select Name
5 keypad keys	enter the name for the tone
6 OK (⊙)	store the name
7 DONE (⊘)	store the tone

Entering Notes

To create a new tone, use the keypad keys to enter each note in turn. You can modify a note's pitch, octave, or length by entering an octave/note/length combination as described below:

Key	Note or Option	Description
1	1	set octave one
	2	set octave two
	3	set octave three
2 ABC	A	note A
	B	note B
	C	note C
3 DEF	D	note D
	E	note E
	F	note F
4 GHI	G	note G
	R	rest
7 PQRS	#	sharp
	b	flat
0	q	quarter note or quarter rest
	h	half note or half rest
	w	whole note or whole rest

Enter a note as follows:

Task	Action
Change the octave	Set the new octave (1, 2, or 3) *before* selecting the note. The new octave applies to the note and all following notes until you change it again.
Select the note (required)	Press a keypad key to enter a note.
Change a note to a sharp or flat	Enter a sharp or flat (# or b) *after* selecting the note. Some sharps and flats are played as standard notes. For example, B# is the same as C. Press ⏶⏷ to scroll to valid notes when entering a new note.
Change a note's length	Set the new length (q, h, or w) *after* selecting the note. The new length applies to the note and all following notes until you change it again.
Add a rest	Enter one or more rests (R characters) as needed in the tone sequence. You can set the length of the rest by entering a q, h, or w character *after* the rest, just as you can for a note.
Listen to a new tone as you compose it	Press MENU to enter the Compose Menu, and select Play All to play the notes you have entered.

Playing a Tone

Find the Feature MENU > Settings > Ring Styles > My Tones

Press	To
1 ⊖⊕	scroll to the tone you want
2 MENU	open the My Tones Menu
3 ⊖⊕	scroll to Play
4 SELECT (⊙)	select Play The phone displays the playback meter and plays the tone.
5 PLAY (⊙) **or** CANCEL (⊗)	play the tone again return to the my tones list

Editing a Tone

You cannot edit the standard tones included with your phone. To edit a custom tone that you created:

Find the Feature MENU > Settings > Ring Styles > My Tones

Press	To
1 ⊖⊕	scroll to the tone you want to edit
2 EDIT (⊙)	open the tone details
3 ⊖⊕	scroll to the details you want to edit (Name or Notes)

Press	To
4 CHANGE (⊙)	select the details you want to edit
5 keypad keys	enter new text or notes
6 OK (⊙)	store the details

Deleting a Tone

You cannot delete the standard tones included with your phone. To delete a custom tone that you created:

Find the Feature MENU > Settings > Ring Styles > My Tones

Press	To
1 ⇕	scroll to the tone you want
2 MENU	open the My Tones Menu
3 ⇕	scroll to Delete
4 SELECT (⊙)	select Delete
5 YES (⊘)	confirm the deletion

Reordering Menu Items

You can customize the order of the items in your phone's main menu, depending upon your usage.

Find the Feature MENU > Settings > Other Settings > Personalize > Main Menu

Press	To
1 ⊖⊕	scroll to the menu item you want to move
2 GRAB (⊙)	grab the menu item you want to move
3 ⊖⊕	move the item up or down the menu
4 INSERT (⊙)	insert the item in the new location

Customizing a Soft Key Function

You can relabel the soft keys (⊘ and ⊙) to access different main menu items from the idle display.

Find the Feature MENU > Settings > Other Settings > Personalize > Keys

Press	To
1 ⊖⊕	scroll to Left or Right
2 CHANGE (⊙)	open the key editor
3 ⊖⊕	scroll to the new key function
4 CHANGE (⊙)	confirm the new function The key will have the new function whenever the phone is idle.

Security

Assigning a New Code or Password

Your phone's four-digit unlock code and the six-digit security code (originally set to 000000) are set at the factory. Your service provider may reset these numbers before you receive your phone.

If your service provider has *not* reset these numbers, we recommend that you change them to prevent other users from accessing your personal information or modifying your phone settings. The unlock code must contain four digits, and the security code must contain six digits. Be sure to make a note of the new numbers.

Locking and Unlocking Your Phone

You can lock your phone manually or set your phone to lock automatically whenever you turn it off.

When you try to use a locked phone, it asks you to enter the unlock code. A locked phone still rings or vibrates for incoming calls or messages, *but you must unlock it to answer.*

You may be able to make emergency calls on your phone even when it is locked. See "Dialing an Emergency Number" on page 29.

Lock Your Phone Manually

Find the Feature MENU > Settings > Security > Phone Lock > Lock Now

Press	To
1 keypad keys	enter your four-digit unlock code
2 OK (⊙)	lock the phone

Set Your Phone to Lock Automatically

You can set your phone to lock every time you turn it off:

Find the Feature MENU > Settings > Security > Phone Lock > Automatic Lock > On

Press	To
1 keypad keys	enter your four-digit unlock code
2 OK (⊙)	set the phone to lock automatically

Unlock Your Phone

At the Enter Unlock Code prompt:

Press	To
1 keypad keys	enter your four-digit unlock code
2 OK (⊙)	unlock your phone

Locking and Unlocking Your Keypad

You can lock your phone keypad to prevent accidental use. This feature is useful in situations where an accidental keypress might inadvertently dial an emergency number or one-touch dial number (for example, when carrying your phone in a purse or pocket).

Press	To
MENU *	lock or unlock your keypad

Note: Incoming calls and messages unlock the keypad.

Troubleshooting

Check these questions first if you have problems with your phone:

Question	Answer
Is your phone set up correctly?	Press MENU #. If you do not see your phone number, contact your service provider.
Is your battery charged? Do you see ▭ in the display?	The battery level indicator should have at least one segment showing (▭). If it does not, recharge your battery. (See "Charging the Battery" on page 18 and "Battery Use" on page 26.)
Does the handset have a signal? Do you see in the display?	Make sure that your antenna is fully extended (if applicable). The signal strength indicator should have at least one segment showing ( ). If it does not, move to an area with a stronger signal to use your phone.
Is the earpiece volume too low or does the phone not ring?	Press the upper volume key on the side of the phone.

Question	Answer
Has the phone been damaged, dropped, or gotten wet?	Dropping your phone, getting it wet, or using a non-Motorola battery or battery charger can damage the phone. The phone's limited warranty does not cover liquid damage or damage caused from using non-Motorola accessories.
Was a non-Motorola battery or battery charger used?	

The following refer to specific problems:

Problem	Solution
I pressed the power key, but nothing happened.	Be sure to press and hold the power key until the display appears and you hear an audible alert (this could take a couple of seconds). If nothing happens, check that a charged battery is installed. (See "Installing the Battery" on page 17.)
The display says: Enter Unlock Code. How do I unlock my phone?	Enter the factory-preset unlock code, or the last four digits of your phone number. (See "Locking and Unlocking Your Phone" on page 90.) If this fails, call your service provider (the company that sends you your monthly wireless service bill).

Problem	Solution
I cannot send/ receive calls.	Make sure that your antenna is fully extended (if applicable) and that you have a phone signal (see the "Signal Strength Indicator" item on page 23). Avoid electrical or radio interference, and obstructions such as bridges, parking garages, or tall buildings. Your phone also may have the Restrict Calls feature turned on. If you know the unlock code, you can change this setting in the security menu (MENU > Settings > Security).
I cannot open my inbox.	Before you can use text or information services messages, you must set up the appropriate inbox. See "Setting Up the Text Message Inbox" on page 70.
My phone's display is too dark.	You can use the Contrast feature (see page 57) to change the level of contrast in your phone display. You can also use the Backlight feature (see page 56) to change the length of time that your phone's backlight display stays on.

Problem	Solution
I am unable to record a voice note or voice name.	Try moving to a quieter location to make your voice recording. Hold the phone about four inches (10 centimeters) away from your mouth, and speak directly into your phone's microphone in a normal tone of voice.
I launched the micro-browser but the display says: Service Not Available.	You may be in an area without service. If you have wireless service, look in the display for the digital signal indicator (D). If you do not see the indicator, you may be in an area that has only analog service or no service at all. If you see the digital signal indicator, you may be connected to a digital network that does not support Internet access.
I launched the micro-browser but the display says: Data Server Unavailable.	Try again in a few minutes. The servers may be temporarily busy.

Programming Instructions

Follow this procedure if you need to program your phone's phone number or system ID.

Note: Programming is normally done by a trained technician at the site of purchase. Users should not make changes other than ones in the following procedure.

Before programming, ask your service provider for your:

- 10-digit MIN (Mobile Identification Number)
- 8- to 15-digit IMSI (International Mobile Service Identifier)
- 8- to 15-digit MDN (Mobile Directory Number)
- 5-digit AMPS SysID number
- 5-digit CDMA SysID number

Do	This	To
1	Press 7PQRS 4GHI 6MNO 6MNO 3DEF #▸ MENU MENU (These keys spell P-H-O-N-E + #▸ MENU MENU).	open the user activation menu
2	Press SELECT (●)	select NAM1
3	Press the keypad keys for the 10-digit MIN	open the MIN display and enter the new MIN
4	Press OK (●)	store the new MIN
5	Similarly, enter appropriate numbers for the IMSI, MDN, AMPS SysID, and CDMA SysID	
6	Press DONE (◦)	close the NAM1 list
7	Press BACK (◦)	close the user activation menu

Specific Absorption Rate Data

This model phone meets the government's requirements for exposure to radio waves.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed limits for exposure to radio frequency (RF) energy set by the U.S. Federal Communications Commission for the United States and by Health Canada for Canada. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age or health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC and by Health Canada is 1.6 W/kg.[1] Tests for SAR are conducted using standard operating positions accepted by the FCC and by Industry Canada with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network.

In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public in the U.S. and Canada, it must be tested and certified to the FCC and Industry Canada that it does not exceed the limit established by each government for safe exposure. The tests are performed in positions and locations (e.g., at the ear and worn on the body) reported to the FCC and available for review by Industry Canada. The highest SAR value for this model phone when tested for use at the ear is 1.55 W/kg[2], and when worn on the body, as described in this user guide, is 1.41 W/kg.[2] (Body-worn measurements differ among phone models, depending upon available accessories and regulatory requirements). While there may be differences between the SAR levels of various phones and at various positions, they all meet the governmental requirements for safe exposure.

The FCC and Industry Canada have granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as being in compliance with the FCC and Health Canada RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of:

`http://www.fcc.gov/oet/fccid`

after searching on FCC ID IHDT56AL1. You may also refer to Motorola's Web site:

`http://www.motorola.com/rfhealth`

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications & Internet Association (CTIA) Web site:

http://phonefacts.net

or the Canadian Wireless Telecommunications Association (CWTA) Web site:

http://www.cwta.ca

1. In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.
2. Additional related information includes the Motorola testing protocol, assessment procedure, and measurement uncertainty range for this product.

ITC01-064

The U.S. Food and Drug Administration's Center for Devices and Radiological Health Consumer Update on Mobile Phones

FDA has been receiving inquiries about the safety of mobile phones, including cellular phones and PCS phones. The following summarizes what is known—and what remains unknown—about whether these products can pose a hazard to health, and what can be done to minimize any potential risk. This information may be used to respond to questions.

Why the concern?

Mobile phones emit low levels of radio frequency energy (i.e., radio frequency radiation) in the microwave range while being used. They also emit very low levels of radio frequency energy (RF), considered non-significant, when in the stand-by mode. It is well known that high levels of RF can produce biological damage through heating effects (this is how your microwave oven is able to cook food). However, it is not known whether, to what extent, or through what mechanism, lower levels of RF might cause adverse health effects as well. Although some research has been done to address these questions, no clear picture of the biological effects of this type of radiation has emerged to date. Thus, the available science does not allow us to conclude that mobile phones are absolutely safe, or that they are unsafe. However, the available scientific evidence does not demonstrate any adverse health effects associated with the use of mobile phones.

What kinds of phones are in question?

Questions have been raised about hand-held mobile phones, the kind that have a built-in antenna that is positioned close to the user's head during normal telephone conversation. These types of mobile phones are of concern because of the short distance between the phone's antenna—the primary source of the RF—and the person's head. The exposure to RF from mobile phones in which the antenna is located at greater distances from the user (on the outside of a car, for example) is drastically lower than that from hand-held phones, because a person's RF exposure decreases rapidly with distance from the source. The safety of so-called "cordless phones," which have a base unit connected to the telephone wiring in a house and which operate at far lower power levels and frequencies, has not been questioned.

How much evidence is there that hand-held mobile phones might be harmful?

Briefly, there is not enough evidence to know for sure, either way; however, research efforts are on-going. The existing scientific evidence is conflicting and many of the studies that have been done to date have suffered from flaws in their research methods. Animal experiments investigating the effects of RF exposures characteristic of mobile phones have yielded conflicting results. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. In one study, mice genetically altered to be predisposed to developing one type of cancer developed more than twice as many such cancers when they were exposed to RF energy compared to controls. There is much uncertainty among scientists about whether results obtained from animal studies apply to the use of mobile phones.

First, it is uncertain how to apply the results obtained in rats and mice to humans. Second, many of the studies that showed increased tumor development used animals that had already been treated with cancer-causing chemicals, and other studies exposed the animals to the RF virtually continuously—up to 22 hours per day.

For the past five years in the United States, the mobile phone industry has supported research into the safety of mobile phones. This research has resulted in two findings in particular that merit additional study:

1 In a hospital-based, case-control study, researchers looked for an association between mobile phone use and either glioma (a type of brain cancer) or acoustic neuroma (a benign tumor of the nerve sheath). No statistically significant association was found between mobile phone use and acoustic neuroma. There was also no association between mobile phone use and gliomas when all types of types of gliomas were considered together. It should be noted that the average length of mobile phone exposure in this study was less than three years.

   When 20 types of glioma were considered separately, however, an association was found between mobile phone use and one rare type of glioma, neuroepithelliomatous tumors. It is possible with multiple comparisons of the same sample that this association occurred by chance. Moreover, the risk did not increase with how often the mobile phone was used, or the length of the calls. In fact, the risk actually decreased with cumulative hours of mobile phone use. Most cancer causing agents increase risk with increased exposure. An ongoing study of brain cancers by the

National Cancer Institute is expected to bear on the accuracy and repeatability of these results.[1]

2 Researchers conducted a large battery of laboratory tests to assess the effects of exposure to mobile phone RF on genetic material. These included tests for several kinds of abnormalities, including mutations, chromosomal aberrations, DNA strand breaks, and structural changes in the genetic material of blood cells called lymphocytes. None of the tests showed any effect of the RF except for the micronucleus assay, which detects structural effects on the genetic material. The cells in this assay showed changes after exposure to simulated cell phone radiation, but only after 24 hours of exposure. It is possible that exposing the test cells to radiation for this long resulted in heating. Since this assay is known to be sensitive to heating, heat alone could have caused the abnormalities to occur. The data already in the literature on the response of the micronucleus assay to RF are conflicting. Thus, follow-up research is necessary.[2]

FDA is currently working with government, industry, and academic groups to ensure the proper follow-up to these industry-funded research findings. Collaboration with the Cellular Telecommunications Industry Association (CTIA) in particular is expected to lead to FDA providing research recommendations and scientific oversight of new CTIA-funded research based on such recommendations.

Two other studies of interest have been reported recently in the literature:

1 Two groups of 18 people were exposed to simulated mobile phone signals under laboratory conditions while they

performed cognitive function tests. There were no changes in the subjects' ability to recall words, numbers, or pictures, or in their spatial memory, but they were able to make choices more quickly in one visual test when they were exposed to simulated mobile phone signals. This was the only change noted among more than 20 variables compared.[3]

2 In a study of 209 brain tumor cases and 425 matched controls, there was no increased risk of brain tumors associated with mobile phone use. When tumors did exist in certain locations, however, they were more likely to be on the side of the head where the mobile phone was used.

Because this occurred in only a small number of cases, the increased likelihood was too small to be statistically significant.[4]

In summary, we do not have enough information at this point to assure the public that there are, or are not, any low incident health problems associated with use of mobile phones. FDA continues to work with all parties, including other federal agencies and industry, to assure that research is undertaken to provide the necessary answers to the outstanding questions about the safety of mobile phones.

What is known about cases of human cancer that have been reported in users of hand-held mobile phones?

Some people who have used mobile phones have been diagnosed with brain cancer. But it is important to understand that this type of cancer also occurs among people who have not used mobile phones. In fact, brain cancer occurs in the U.S. population at a rate of about 6 new cases per 100,000 people

each year. At that rate, assuming 80 million users of mobile phones (a number increasing at a rate of about 1 million per month), about 4800 cases of brain cancer would be expected each year among those 80 million people, whether or not they used their phones. Thus it is not possible to tell whether any individual's cancer arose because of the phone, or whether it would have happened anyway. A key question is whether the risk of getting a particular form of cancer is greater among people who use mobile phones than among the rest of the population. One way to answer that question is to compare the usage of mobile phones among people with brain cancer with the use of mobile phones among appropriately matched people without brain cancer. This is called a case-control study. The current case-control study of brain cancers by the National Cancer Institute, as well as the follow-up research to be sponsored by industry, will begin to generate this type of information.

What is FDA's role concerning the safety of mobile phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as mobile phones before marketing, as it does with new drugs or medical devices. However, the agency has authority to take action if mobile phones are shown to emit radiation at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of mobile phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions at this time, FDA has urged the mobile phone

industry to take a number of steps to assure public safety. The agency has recommended that the industry:

- support needed research into possible biological effects of RF of the type emitted by mobile phones
- design mobile phones in a way that minimizes any RF exposure to the user that is not necessary for device function
- cooperate in providing mobile phone users with the best possible information on what is known about possible effects of mobile phone use on human health

At the same time, FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of mobile phone safety to ensure a coordinated effort at the federal level. These agencies are:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Health and Safety Administration
- National Telecommunications and Information Administration

The National Institutes of Health also participates in this group.

In the absence of conclusive information about any possible risk, what can concerned individuals do?

If there is a risk from these products—and at this point we do not know that there is—it is probably very small. But if people are concerned about avoiding even potential risks, there are simple steps they can take to do so. For example, time is a key

factor in how much exposure a person receives. Those persons who spend long periods of time on their hand-held mobile phones could consider holding lengthy conversations on conventional phones and reserving the hand-held models for shorter conversations or for situations when other types of phones are not available.

People who must conduct extended conversations in their cars every day could switch to a type of mobile phone that places more distance between their bodies and the source of the RF, since the exposure level drops off dramatically with distance. For example, they could switch to:

- a mobile phone in which the antenna is located outside the vehicle
- a hand-held phone with a built-in antenna connected to a different antenna mounted on the outside of the car or built into a separate package
- a headset with a remote antenna to a mobile phone carried at the waist

Again, the scientific data do not demonstrate that mobile phones are harmful. But if people are concerned about the radio frequency energy from these products, taking the simple precautions outlined above can reduce any possible risk.

Where can I find additional information?

For additional information, see the following Web sites:

Federal Communications Commission (FCC) RF Safety Program (select "Information on Human Exposure to RF Fields from Cellular and PCS Radio Transmitters"):
`http://www.fcc.gov/oet/rfsafety`

World Health Organization (WHO) International Commission on Non-Ionizing Radiation Protection (select Qs & As): http://www.who.int/emf

United Kingdom, National Radiological Protection Board: http://www.nrpb.org.uk

Cellular Telecommunications Industry Association (CTIA): http://www.wow-com.com

U.S. Food and Drug Administration (FDA) Center for Devices and Radiological Health: http://www.fda.gov/cdrh/consumer/

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2. Tice et al. Tests of mobile phone signals for activity in genotoxicity and other laboratory assays. In: Annual Meeting of the Environmental Mutagen Society; March 29, 1999, Washington, D.C.; and personal communication, unpublished results.
3. Preece, AW, Iwi, G, Davies-Smith, A, Wesnes, K, Butler, S, Lim, E, and Varey, A. Effect of a 915-MHz simulated mobile phone signal on cognitive function in man. Int. J. Radiat. Biol., April 8, 1999.
4. Hardell, L, Nasman, A, Pahlson, A, Hallquist, A and Mild, KH. Use of cellular telephones and the risk for brain tumors: a case-control study. Int. J. Oncol., 15: 113-116, 1999.

ITC00-010

Warranty

Limited Warranty for Motorola Personal Communications Products and Accessories Purchased in the United States and Canada

I. What This Warranty Covers

Defects in materials and workmanship in the following new **"Products"** manufactured, sold or certified by Motorola, with which this limited warranty is included in/on the package: (a) wireless cellular telephones, pagers and two-way radios that operate via "Personal Radio Service" (such as Family Radio Service and General Mobile Radio Service), together with software imbedded in any of these products, and (b) subject to the following exceptions, accessories or software sold for use with these products.

- Battery Exception. This limited warranty extends only to batteries in which the fully-charged capacity falls below 80% of rated capacity and batteries that leak;
- Software Exceptions. This limited warranty extends only to physical defects in the media (such as CD-ROM) that tangibly embodies each copy of any software sold and/or certified by Motorola for use with Products. Software that is not tangibly embodied in media and that is purchased separately from Products (such as software that is downloaded from the internet) comes **"as is" and without warranty**.

II. What the Period of Coverage Is

Subject to the following exceptions, one year from the date the Products are purchased by the first end-user:

- 90-Day Warranty Exception. The warranty is for 90 days for: (a) any software tangibly embodied in media or (b) any accessories for two-way radios that are covered by this warranty, as described in Section I, above.
- Limited Lifetime Warranty Exception. The warranty is a limited lifetime warranty for the lifetime of ownership by the first end-user of the following products, **only**: (a) decorative covers, including bezel, PhoneWrap™ or case (any model); and (b) ear buds and boom headsets that transmit mono sound through a wire connection (this does **not** include ear buds or boom headsets that either transmit stereo sound or that are wireless, or both).
- Repair/Replacement Exception. The warranty is for the balance of the original warranty or for 90 days from the date returned and delivered to the first end-user, whichever is longer.

III. Who is Covered

This warranty extends to you only if you are the first end-user purchaser.

IV. What We Will Do to Correct Warranty Problems

At no charge to you, we have the option to repair or replace the Products that do not conform to the warranty, or to refund the Products' purchase price. We may use functionally equivalent

reconditioned/refurbished/pre-owned or new Products or parts. No software updates are provided.

V. How to Get Warranty Service

PLEASE CALL US — DO NOT SHIP:

USA
Cellular 1-800-331-6456
Paging 1-800-548-9954
FRS Radios 1-800-353-2729
TTY (Text Telephone) 1-888-390-6456

Canada
All Products 1-800-461-4575
TTY (Text Telephone) 1-888-390-6456

Accessories and software—call the number designated for the product with which they are used.

You will receive instructions on how to ship the Products to Motorola or our designated resource. If instructed to ship the Products, you must ship them with freight, duties and insurance prepaid. Regardless of where you are instructed to return the Products, you must include: (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; (c) the name of your service provider (if this Product requires subscription service); (d) the name and location of the installation facility (if applicable) and, most importantly; (e) your address and telephone number. If requested, you must also return all detachable parts such as antennas, batteries and chargers. RETAIN YOUR ORIGINAL PROOF OF PURCHASE.

For Products we ask you ship to us, we will ship repaired or replacement Products at our expense for the freight and insurance, but at your expense for any duties. If additional

information is needed, please contact us at the telephone number listed above.

VI. What This Warranty Does Not Cover

- **Products that are operated in combination with ancillary or peripheral equipment or software not furnished or otherwise certified by Motorola for use with the Products ("ancillary equipment"), or any damage to the Products or ancillary equipment as a result of such use. Among other things, "ancillary equipment" includes batteries, chargers, adaptors, and power supplies not manufactured or supplied by Motorola. Any of these voids the warranty.**
- Someone other than Motorola (or its authorized service centers) tests, adjusts, installs, maintains, alters, modifies or services the Products in any way. Any of these voids the warranty.
- Rechargeable batteries that: (a) are charged by other than the Motorola-approved battery charger specified for charging such batteries; (b) have any broken seals or show evidence of tampering; (c) are used in equipment other than the Product for which they are specified; or (d) are charged and stored at temperatures greater than 60 degrees centigrade. Any of these voids the warranty.
- Products that have: (a) serial numbers or date tags that have been removed, altered or obliterated; (b) board serial numbers that do not match each other, or board serial numbers that do not match the housing; or

(c) nonconforming or non-Motorola housings or parts. Any of these voids the warranty.

- Defects or damage that result from: (a) use of the Products in a manner that is not normal or customary; (b) improper operation or misuse; (c) accident or neglect such as dropping the Products onto hard surfaces; (d) contact with water, rain, extreme humidity or heavy perspiration; (e) contact with sand, dirt or the like; or (f) contact with extreme heat, or spills of food or liquid.
- Physical damage to the surface of the Products, including scratches, cracks or other damage to a display screen, lens or other externally exposed parts.
- Failure of Products that is due primarily to any communication service or signal you may subscribe to or use with the Products.
- Coil cords that are stretched or that have any broken modular tabs.
- Leased Products.

Flat-rate repair rates may apply to Products not covered by this warranty. To obtain information about Products needing repairs that are not covered by this warranty, please call the telephone number previously listed. We will provide information on repair availability, rates, methods of payment, where to send the Products, etc.

VII. Some Other Limitations

This is Motorola's complete warranty for the Products, and states your exclusive remedies. This warranty is

given in lieu of all other express warranties. Implied warranties, including without limitation, the implied warranties of merchantability and fitness for a particular purpose, are given only if specifically required by applicable law. Otherwise, they are specifically excluded.

No warranty is made as to coverage, availability, or grade of service provided by the Products, whether through a service provider or otherwise.

No warranty is made that the software will meet your requirements or will work in combination with any hardware or applications software products provided by third parties, that the operation of the software products will be uninterrupted or error free, or that all defects in the software products will be corrected.

In no event shall Motorola be liable, whether in contract or tort (including negligence) for damages in excess of the purchase price of the Product, or for any indirect, incidental, special or consequential damages of any kind, or loss of revenue or profits, loss of business, loss of information or data, or other financial loss arising out of or in connection with the ability or inability to use the Products, to the full extent these damages may be disclaimed by law.

VIII. Patent and Software Provisions

At Motorola's expense, we will defend you, and pay costs and damages that may be finally awarded against you, to the extent that a lawsuit is based on a claim that the Products directly

infringe a United States patent. Our obligation is conditioned on: (a) you notifying us promptly in writing when you receive notice of the claim; (b) you giving us sole control of the defense of the suit and all negotiations for its settlement or compromise; and (c) should the Products become, or in Motorola's opinion be likely to become, the subject of a claim of infringement of a United States patent, you permit us, at our option and expense, either to: procure for you the right to continue using the Products; replace or modify them so that they become non-infringing; or grant you a credit for such Products, as depreciated, and accept their return. The depreciation will be an equal amount per year over the lifetime of the Products, as established by Motorola.

Motorola will have no liability to you with respect to any claim of patent infringement that is based upon the combination of the Products or parts furnished under this limited warranty with ancillary equipment, as defined in VI., above.

This is Motorola's entire liability with respect to infringement of patents by the Products.

IX. State Law and Other Jurisdiction Rights

Some states and other jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or limitation on the length of an implied warranty, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from jurisdiction to jurisdiction.

To obtain information on Motorola Personal Communications Products, including warranty service, accessories and optional Extended Warranties on selected Products, please call:

USA
Cellular 1-800-331-6456
Paging 1-800-548-9954
FRS Radios 1-800-353-2729
TTY (Text Telephone)
1-888-390-6456

Canada
All Products
1-800-461-4575
TTY (Text Telephone)
1-888-390-6456

Accessories and software—call the telephone number designated above for the product with which they are used.

DO NOT SHIP PRODUCTS TO THESE ADDRESSES — INSTEAD PLEASE CALL.

To correspond with Motorola about Products, please write us at `http://www.motorola.com` or at:

In the USA:
Motorola, Inc.
600 North U.S. Highway 45
Libertyville, IL 60048

In Canada:
Motorola Canada Limited
5875 Whittle Road
Mississauga, ON L4Z 2H4

ITC01-078

Export Law Assurances

This product is controlled under the export regulations of the United States of America and Canada. The Governments of the United States of America and Canada may restrict the exportation or re-exportation of this product to certain destinations. For further information contact the U.S. Department of Commerce or the Canadian Department of Foreign Affairs and International Trade.

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U.S. patent Re. 34,976

MOTOROLA

Wireless Phone Safety Tips

"Safety is your most important call!"

Your Motorola wireless telephone gives you the powerful ability to communicate by voice—almost anywhere, anytime, wherever wireless phone service is available and safe conditions allow. But an important responsibility accompanies the benefits of wireless phones, one that every user must uphold.

When driving a car, driving is your first responsibility. If you find it necessary to use your wireless phone while behind the wheel of a car, practice good common sense and remember the following tips:

1 **Get to know your Motorola wireless phone and its features such as speed dial and redial.** If available, these features help you to place your call without taking your attention off the road.

2 **When available, use a hands-free device.** If possible, add an additional layer of convenience to your wireless phone with one of the many Motorola Original™ hands-free accessories available today.

3 **Position your wireless phone within easy reach.** Be able to access your wireless phone without removing your eyes from the road. If you receive an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.

4 **Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions.** Rain, sleet, snow, ice, and even heavy traffic can be hazardous.

5 **If you receive an incoming call at an inconvenient time do not take notes or look up phone numbers while driving.** Jotting down a "to do" list or going through your address book takes attention away from your primary responsibility—driving safely.

6 **Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic.** Try to plan calls when your car will be stationary. If you need to make a call while moving, dial only a few numbers, check the road and your mirrors, then continue.

7 **Do not engage in stressful or emotional conversations that may be distracting.** Make people you are talking with aware you are driving and suspend conversations which have the potential to divert your attention away from the road.

8 **Use your wireless phone to call for help.** Dial 9-1-1 or other local emergency number in the case of fire, traffic accident or medical emergencies.*

9 **Use your wireless phone to help others in emergencies.** If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.*

10 **Call roadside assistance or a special non-emergency wireless assistance number when necessary.** If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured, or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.*

* Wherever wireless phone service is available.

Check the laws and regulations on the use of wireless telephones and their accessories in the areas where you drive. Always obey them. The use of these devices may be prohibited or restricted in certain areas.

For more information,
please call
1-888-901-SAFE
or visit the
CTIA Web site at
www.wow-com.com™

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